

Engineering Exhibit  
 KQQL(FM) FID: 54457  
 Amendment to BPH-19971209IA

This application is a coordinate correction application to bring the KQQL license into accordance with antenna structure registration 1242341. Additionally a minor error in the height above ground of the antenna has been discovered, and a height 5 meters lower than the present licensed height is being requested. This is a “paper change” only, no actual construction, or modification to the existing licensed facilities of KQQL, are to be made.

This application is fully spaced section 73.207 to all known applications, allotments, and stations with the exception of station KTCZ-FM 246C. To station KTCZ-FM spacing is in accordance with Section 73.213(b) as this short spacing was allowed prior to May 17, 1989 and the stations have remained in such arrangement since that time. In an abundance of caution a map demonstrating that the 36 mV/m contours of KTCZ-FM and this application do not overlap is attached as Figure 1. A spacing study is found in Table 1 of this exhibit.

Table 1

ComStudy 2.2 search of channel 300 (107.9 MHz Class C)  
 at 45-20-20.0 N, 93-23-27.0 W.

Callsign	State	City	Chanl	Class	Status	Dist_km	Sep	Clr
KTCZ-FM	MN	MINNEAPOLIS	246	C	USE	35.04	48	-13
KTCZ-FM	MN	MINNEAPOLIS	246	C	LIC	37.57	48	-10.4
KTCZ-FM	MN	MINNEAPOLIS	246	C	LIC	41.38	48	-6.6
KBMX	MN	PROCTOR	299	C2	USE	188.56	188	0.6
KBMX	MN	PROCTOR	299	C2	LIC	188.56	188	0.6
KLCX	MN	ST. CHARLES	299	A	LIC	171.66	165	6.7
KPFX	ND	FARGO	300	C1	LIC	284.42	270	14.4

The Proposed facilities were evaluated in terms of potential radio frequency radiation exposure at ground level in accordance with OET Bulletin No. 65, “Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radio frequency Radiation.”

The proposed antenna system is an EPA type 3, 8- bay, “Rototiller “ antenna, mounted with its center of radiation 333 meters above ground level, and will operate with an effective radiated power of 100 Kilowatts in both the horizontal and vertical planes. At 2 meters above ground, at 91 meters from the base of the tower, this proposal will contribute worst case, 3.49 microwatts per square centimeter, or 0.349 percent of the allowable ANSI limit for controlled exposure, and 1.74 percent of the allowable limit for

uncontrolled exposure. It is therefore believed that this proposal is in compliance with OET Bulletin Number 65 as required by the Federal Communications Commission.

Further, the applicant will see that signs are posted in the vicinity of the tower, warning of potential radio frequency hazards at the site. The site itself is restricted from public access. The applicant will cooperate with other users of the tower to reduce power of the facility, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to climb the tower for maintenance or inspection.

Figure 1

